



6CY7

DUAL TRIODE

With High-Mu Unit and Low-Mu Unit

9-PIN MINIATURE TYPE

6CY7

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) 6.3 \pm 10% volts

Current 0.75 amp

Direct Interelectrode Capacitances (Approx.):^o

Unit No.1 Unit No.2

Grid to plate 1.8 4.4 μ fGrid to cathode and heater. . . 1.5 5 μ fPlate to cathode and heater . . 0.3 1 μ fCharacteristics, Class A₁ Amplifier:

Unit No.1 Unit No.2

Plate Supply Voltage. 250 60 150 volts

Grid Voltage. -3 0 - volts

Cathode Resistor. - - 620 ohms

Amplification Factor. 68 - 5

Plate Resistance (Approx.). . . 52000 - 920 ohms

Transconductance. 1300 - 5400 μ hos

Plate Current 1.2 80* 30 ma

Plate Current for grid volts

= -30 - - 3.5 ma

Grid Voltage (Approx.) for

plate μ a = 10 -5.5 - - volts

Grid Voltage (Approx.) for

plate μ a = 200. - - -40 volts

Mechanical:

Operating Position. Any

Maximum Overall Length. 2-5/8"

Maximum Seated Length 2-3/8"

Length, Base Seat to Bulb Top (Excluding tip) . . 2" \pm 3/32"

Diameter. 0.750" to 0.875"

Dimensional Outline See General Section

Bulb. T6-1/2

Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)

Basing Designation for BOTTOM VIEW. 9LG

Pin 1 - Plate of

Unit No.2

Pin 2 - Internal Con-

nection—

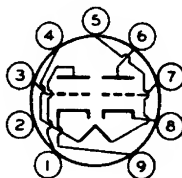
Do Not Use

Pin 3 - Grid of

Unit No.2

Pin 4 - Heater

Pin 5 - Heater



Pin 6 - Plate of

Unit No.1

Pin 7 - Grid of

Unit No.1

Pin 8 - Cathode of

Unit No.1

Pin 9 - Cathode of

Unit No.2

6CY7



6CY7

DUAL TRIODE**With High-Mu Unit and Low-Mu Unit****VERTICAL-DEFLECTION OSCILLATOR***Values are for Unit No. 1***Maximum Ratings, Design-Maximum Values:***For operation in a 525-line, 30-frame system[□]*

DC PLATE VOLTAGE.	350	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	400	max.	volts
PLATE DISSIPATION	1	max.	watt
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200 [▲]	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance	2.2	max.	megohms
-----------------------------------	-----	------	---------

VERTICAL-DEFLECTION AMPLIFIER*Values are for Unit No. 2***Maximum Ratings, Design-Maximum Values:***For operation in a 525-line, 30-frame system[□]*

DC PLATE VOLTAGE.	350	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE [*]	1800	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	120	max.	ma
Average	35	max.	ma
PLATE DISSIPATION	5.5	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200 [▲]	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For cathode-bias operation.	2.2	max.	megohms
-------------------------------------	-----	------	---------

[□] Without external shield.^{*} This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.[□] As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.[▲] The dc component must not exceed 100 volts.^{*} This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.